Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 07-03-18

Lab ID	:	CP-2018-03-05-04
Customer	:	Assistant Executive Engineer, Dasarahgalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahgalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of Culvert at Bhoomika Layout (Near Gangamma House) in Bagalagunte in Ward No.14.
Agency	:	Sri.Naveen.J, No.U-1/2, 11th Cross, 1st Main, 2nd Railway gate, K.P Agrahara, Bhuvaneshwari nagar, Bengalore-560023.
Customer's Reference	:	EE/DD/WO/255/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-04 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	05-03-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	188	217	21.7	78.3	60-95	75-100	85-100	95-100
4	1.18 mm	197	414	41.4	58.6	30-70	55-90	75-100	90-100
5	600 micron	158	572	57.2	42.8	15-34	35-59	60-79	80-100
6	300 micron	202	774	77.4	22.6	5-20	8-30	12-40	15-50
7	150 micron	149	923	92.3	7.7	0-10	0-10	0-10	0-15
8	Pan	77	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-05-04** **Date: 07-03-18**

Sample ID No : 2018-03-05-04 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.48	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-05-04** **Date: 07-03-18**
Customer	:	Assistant Executive Engineer, Dasarahgalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahgalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of Culvert at Bhoomika Layout (Near Gangamma House) in Bagalagunte in Ward No.14.
Agency	:	Sri.Naveen.J, No.U-1/2, 11th Cross, 1st Main, 2nd Railway gate, K.P Agrahara, Bhuvaneshwari nagar, Bengalore-560023.
Customer Reference	:	EE/DD/WO/255/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-04 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	149	149	3.0	97.0	90-100
3	10 mm	3051	3200	64.0	36.0	25-55
4	4.75 mm	1645	4845	96.9	3.1	0-10
5	Pan	155	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-05-04 **Date: 07-03-18**

Sample ID No : 2018-03-05-04 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-05-04** **Date: 08-03-18**
Customer	:	Assistant Executive Engineer, Dasarahgalli Sub Division, BBMP,
Address	:	Dasarahgalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of Culvert at Bhoomika Layout (Near Gangamma House) in Bagalagunte in Ward No.14.
Agency	:	Sri.Naveen.J, No.U-1/2, 11th Cross, 1st Main, 2nd Railway gate, K.P Agrahara, Bhuvaneshwari nagar, Bengalore-560023.
Customer's Reference	:	EE/DD/WO/255/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-04 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	06-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.82	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.52	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-03-05-04 **Date: 03-04-18**
Customer	:	Assistant Executive Engineer, Dasarahgalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahgalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of Culvert at Bhoomika Layout (Near Gangamma House) in Bagalagunte in Ward No.14.
Agency	:	Sri.Naveen.J, No.U-1/2, 11th Cross, 1st Main, 2nd Railway gate, K.P Agrahara, Bhuvaneshwari nagar, Bengalore-560023.
Customer's Reference	:	EE/DD/WO/255/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-04 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	06-03-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-05-04** **Date: 08-03-18**
Customer	:	Assistant Executive Engineer, Dasarahgalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahgalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Construction of Culvert at Bhoomika Layout (Near Gangamma House) in Bagalagunte in Ward No.14.
Agency	:	Sri.Naveen.J, No.U-1/2, 11th Cross, 1st Main, 2nd Railway gate, K.P Agrahara, Bhuvaneshwari nagar, Bengalore-560023.
Customer's Reference	:	EE/DD/WO/255/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-04 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	152	152	1.0	99.0	90-100
3	20 mm	7485	7637	50.9	49.1	30-70
4	10 mm	4155	11792	78.6	21.4	10-35
5	4.75 mm	2588	14380	95.9	4.1	0-5
6	Pan	620	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-05-04 **Date: 08-03-18**

Sample ID No : 2018-03-05-04 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.21	–

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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-03-12-04**	**Date: 16-03-18**
Customer	:	Assistant Executive Engineer, Dasarahgalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahgalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to drains and Construction of Culvert at Bhoomika Layout (Near Gangamma House) in Bagalagunte in Ward No.14.	
Agency	:	Sri.Naveen.J, No.U-1/2, 11th Cross, 1st Main, 2nd Railway gate, K.P Agrahara, Bhuvaneshwari nagar, Bengalore-560023.	
Customer's Reference	:	EE/DD/WO/255/17-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-03-18	
Sample ID No	:	2018-03-12-04 /01	
Sample Type /Size	:	250MM Thick Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	12/03/2018	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.48	200.45	3.152	17781	341.5	19.2	17.9	22.3
2	Cover Slab-2	150.63	200.41	3.195	17817	345.2	19.4	18.0	22.5
3	Cover Slab-3	150.44	100.51	3.196	17772	344.7	19.4	18.0	22.5

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